

## ABSTRACT

The present invention relates to a composition containing sHSPs for prevention of protein degradation and a composition for two-dimensional (2-D) gel electrophoresis. Furthermore, the present invention relates to the improved method of 2-D gel electrophoresis, which is characterized by using sHSPs. According to the present invention, decreasing of protein spots was prevented in the 2-D gel electrophoresis, thereby obtaining 2-D gel with much more protein spots.